

**Defense Information Infrastructure (DII)
Common Operating Environment (COE)
Software Version Description (SVD)
for the
METOC Channels Database (MDCHNL) Segment
(Solaris Version)**

Release 1.2.0.0

10 August 2001

**Prepared for:
Space and Naval Warfare Systems Command
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1 SCOPE

1.1 Identification

This Software Version Description (SVD) describes the METOC Channels (MDCHNL) Segment of the METCAST data distribution software, Release 1.2.0.0, developed by Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA. This software was compiled with the Defense Information Infrastructure (DII) Common Operating Environment (COE), software version 4.4. The software runs under the following hardware and operating system:

- Sun Enterprise 250 or higher computer running the Sun Solaris operating system, release version 2.8.

This document has been developed in accordance with the *DII COE Developer Documentation Requirements, Version 2.0*.

1.2 System Overview

METCAST is a standards-based, request-reply and subscription (channel) system for distributing weather information over the Internet using Hyper-Text Transfer Protocol (HTTP) and Multipurpose Internet Mail Extensions (MIME). The METCAST Server Segment is responsible for processing requests for data from METCAST Clients, interfacing with a database to attempt to satisfy each request, and formatting the retrieved data as specified in the request before returning the data to the client. The METCAST Client comprises a separate segment. The MDCHNL segment provides the Channels database for METCAST Server.

1.3 Product Information

1.3.1 Product Qualification

Test and Evaluation (T&E) of the software were performed at Fleet Numerical Meteorology and Oceanography Center (FNMOC), Monterey, CA, prior to delivery of the software.

1.3.2 Product Restrictions

Intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov. 1995).

1.3.2.1 Product Dependencies

MDCHNL requires installation of Informix on the server. See the Installation Procedures document for details.

The full METCAST Server installation requires three segments: MDCHNL (the METOC Channels segment), MDMETC (the observation database segment) and MCSRVr (METCAST Server itself). **These segments must be installed in the following order:**

1. MDCHNL
2. MDMETC (**NOTE:** This segment requires version **2.0.0.0 / 9.21** of the Informix Server Foundation (INFXSF) segment. If INFXSF 2.0.0.0 / 9.21 is not present on the system, this segment should not be installed. MCSRVr can still be installed, but will not have access to observations.)
3. MCSRVr (must be installed last, but requires MDMETC only if observations are to be processed).

2 REFERENCED DOCUMENTS

2.1 Government Documents

DDR-2 23 January 1998	<i>Defense Information Infrastructure (DII) Common Operating Environment (COE) Developer Documentation Requirements, Version 2.0, Defense Information Systems Agency, Joint Operability and Engineering Organization</i>
Unnumbered 18 June 1998	<i>Software Requirements Specification for METCAST, Space and Naval Warfare Systems Command, Environmental Systems Program Office (SPAWAR PMW-155), San Diego, CA</i>
fnmoc_MCSRVR_IP_32Series 10 August 2001	<i>Installation Procedures (IP) for the METCAST Server (MCSRVR) Segment, Release 3.2</i>
fnmoc_MDCHNL_IP_12Series 10 August 2001	<i>Installation Procedures (IP) for the METOC Channels (MDCHNL) Segment, Release 1.2</i>
fnmoc_MDMETC_IP_12Series 10 August 2001	<i>Installation Procedures (IP) for the METOC Observations Database (MDMETC) Segment, Release 1.2</i>
fnmoc_MDMETC_SVD_1200 10 August 2001	<i>Software Version Description (SVD) for the METOC Observations Database (MDMETC) Segment, Release 1.2.0.0</i>
fnmoc_METCAST_IP_15Series 04 June 2001	<i>Installation Procedures (IP) for the METCAST Client Segment, release 1.5</i>
fnmoc_METCAST_UM_1500 04 June 2001	<i>User Manual (UM) for the METCAST Client Segment, release 1.5</i>
fnmoc_METCAST_SVD_1500 04 June 2001	<i>Software Version Description (SVD) for the METCAST Client Segment, Release 1.5.0.0</i>

2.2 Non-Government Documents

None.

3 VERSION DESCRIPTION

3.1 Inventory of Materials Released

All physical media and associated documentation for the METOC Channels Segment are listed below.

- METOC Channels Segment v1.2.0.0 Installation CD-ROM for the Sun Enterprise 250 or higher computer running DII COE 4.4 and the Sun Solaris operating system, release 2.8.
- METOC Channels Segment v 1.2 Series Installation Procedures (IP), dated 10 August 2001.
- METOC Channels Segment v 1.2.0.0 Software Version Description (SVD), dated 10 August 2001.

3.2 Inventory of Software Contents

A listing of all executables and environment files delivered is contained in Appendix A of this document.

3.3 Changes Installed

No significant changes are included in the release of the MDCHNL segment version 1.2.0.0.

Version 1.1.0.0 included a Channel Admin utility that can be accessed, after installation, at http://localhost:8080/cgi-bin/MDCHNL/Channel_Admin.

3.4 Waivers

There are no waivers associated with this software.

3.5 Adaptation Data

There are no site-specific data for the METOC Channels segment.

3.6 Installation Instructions

The METOC Channels Segment v1.2 Series Installation Procedures (IP) referenced in Section 2 of this document provide comprehensive installation instructions for the METOC Channels Segment. The fully installed segment occupies approximately 200 MB of disk space. The software requires a minimum of 8 MB of RAM, with 16 MB recommended (above the operating system requirements).

3.7 Possible Problems and Known Errors

There are no known problems or errors in the v1.2.0.0 release of the METOC Channels software.

4 NOTES

4.1 Glossary of Acronyms

COE	Common Operating Environment
DII	Defense Information Infrastructure
FNMOCC	Fleet Numerical Meteorology and Oceanography Center
GUI	Graphical User Interface
HTTP	Hyper-Text Transfer Protocol
INFSSF	Informix Server Foundation Segment
IP	Installation Procedure
IP	Internet Protocol
METCAST	METOC Broadcast
METOC	Meteorological and Oceanographic
MIME	Multipurpose Internet Mail Extensions
PC	Personal Computer
SRS	Software Requirements Specification
SVD	Software Version Description
T&E	Test and Evaluation
TCP	Transport Control Protocol
UM	User Manual

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APPENDIX A List of Executables and Environment Files

A.1 File Structure for Solaris v2.8 Delivery

```
h/MDCHNL
total 8
drwxr-x---  2 sysadmin other          512 Aug  9 22:33 Scripts
drwxr-x---  2 sysadmin other          512 Aug 10 16:21 SegDescrip
drwxr-x---  2 sysadmin other          512 Aug  8 18:19 bin
drwxr-xr-x  2 sysadmin other          512 Aug  8 23:39 data

/h/MDCHNL/Scripts:
total 6
-rwx-----  1 sysadmin other        2606 Aug  9 13:52 mk_dbspaces.ksh

/h/MDCHNL/SegDescrip:
total 36
-rwxr-x---  1 sysadmin other        1130 Aug  9 20:35 DEINSTALL
-rw-r-----  1 sysadmin other         410 Aug  9 19:51 FileAttribs
-rwxr-x---  1 sysadmin other       3267 Aug 10 16:26 PostInstall
-rwxr-x---  1 sysadmin other         579 Aug 10 15:55 PreInstall
-rw-r-----  1 sysadmin other        119 Aug  9 14:04 ReleaseNotes
-rw-r-----  1 sysadmin other        942 Aug  9 19:45 SegInfo
-rw-r-----  1 sysadmin other        548 Aug  8 23:22 SegName
-rw-r-----  1 sysadmin other        206 Aug  8 23:22 VERSION
-rw-r--r--  1 root      other        132 Aug 10 16:07 Validated

/h/MDCHNL/bin:
total 0

/h/MDCHNL/data:
total 86
-rwx-----  1 sysadmin other        125 Aug  8 23:25 MChannels.sh
-rw-----  1 sysadmin other         150 Aug  8 23:25 adjust_dbs_names
-rw-----  1 sysadmin other      11326 Aug  8 23:25 export-CDF.sql
-rw-----  1 sysadmin other       9641 Aug  8 23:25 fillProducts.sql
-rwx-----  1 sysadmin other       2525 Aug  8 23:38 makeDB
-rw-----  1 sysadmin other       7453 Aug  8 23:25 makeProducts.sql
-rw-----  1 sysadmin other       7447 Aug  8 23:25 makeProducts.sql1
```